WATER POLLUTION CONTROL

INDEX

PART 1 — pp. 1 – 144 PART 3 — pp. 295 – 444
PART 2 — pp. 145 – 294 PART 4 — pp. 445 – 570
PART 5 — pp. 571 – 688

Page

ABBREVIATIONS 696

ACTIVATED-SLUDGE PROCESS:
A Comparison of the Carrousel and Pasveer Ditch Activated-Sludge Plant 297
Cirencester Carrousel Plant: Some Process Considerations 587
Controlled Denitrification in Oxidation Ditches. The Bio-Denitro Process . . 675
First Impressions of a Novel Aeration System for Activated-Sludge Plants 412
Initial Operating Experiences of Uprating Diss Sewage Treatment Works Using the BOC Vitox System 633
Oxygenated Activated-Sludge Process: Evaluation at Palmersford 601
The Influence of Organic Loading and Retention Period on the Performance of the Rotating Disk System 553
The Operating Experiences at Cirencester Carrousel Plant 573
The Role of Phosphorus in Activated Sludge 558
The Use of Oxygen in Sewage Treatment 151
The Use of Oxygen to Uprate the Treatment Capacity of a Conventional Surface-Aeration Plant at Holdenhurst (Bournemouth) Sewage-Treatment Works 391

ANALYSIS AND MONITORING:
Biological Surveillance of Rivers 329
Chemical Surveillance of Rivers 343
Microprocessors and Computers in Analysis in the Water Industry 193
Recent Developments in Flow Measurement in Sewers 675
The Effect of Variations in Analytical Methods on Trade Effluent Charges 665
The Work of the Standing Committee of Analysts 185

ANNUAL CONFERENCE 147

ANNUAL CORPORATE MEETING (FORTY-NINTH) 291

ANNUAL DINNER 288

CENTRAL SOUTHERN BRANCH:
Annual Report, 1981–82 676

COUNCIL, CONSTITUTION OF, 1982–83 681

EAST ANGLIAN BRANCH:
Annual Report, 1981–82 676

EAST MIDLANDS BRANCH:
Annual Report, 1981–82 676

Page

ERRATUM 141

HONG KONG BRANCH:
Annual Report, 1981–82 676

INDUSTRIAL EFFLUENTS:
A Review of Industrial Effluent Control Experience 59
New Developments in the Anaerobic Treatment of Industrial Wastes 540
The Effect of Variations in Analytical Methods on Trade Effluent Charges . . 665

LEGISLATION:
EEC Directive on New Chemicals 241
Implications for the Water Industry of the Notification Scheme for New Chemicals 245

METRIC SYSTEM:
CONVERSION FACTORS 684
PARAMETERS AND CONVERSION FACTORS . . 683

METROPOLITAN AND SOUTHERN BRANCH:
Annual Report, 1981–82 677

MISCELLANEOUS:
Memorandum of Evidence to the Royal Commission on Environmental Protection 566
Performance Indicators and Performance Aims 675
The Character and Dispersal of Motorway Run-off Water 372
The Planning, Implementation and Evaluation of Training 675
Training and Management in the Water Industry 675
Treating the Data Stream 675

NORTH EASTERN BRANCH:
Annual Report, 1981–82 677

NORTH WESTERN BRANCH:
Annual Report, 1981–82 677

NORTHERN BRANCH:
Annual Report, 1981–82 678

NORTHERN IRELAND BRANCH:
Annual Report, 1981–82 678

OBITUARY:
Christopher James Jackson 294
Hubert Dozell Thatcher 570
George E. Townsend 674
Maxwell Robert Vincent-Daviss 142

Page

PRESIDENTIAL ADDRESS 5

SCOTTISH BRANCH:
Annual Report, 1981–82 678

SEWAGE TREATMENT:
A Decade of Experience at the Calder Vale WPC Works 525
A Solution to Screenings Problems by Dewatering and Incineration 358
Cirencester Carrousel Plant: Some Process Considerations 587
Complete Treatment of Sewage in a Two-Stage Fluidized-Bed System. Part I . . 447
Design and Operational Aspects of Screening Installations at Sea Outfalls on the Northumbrian Coast 37
Esholt – Past, Present and Future 28
Experimental Data About Waste-Water Tertiary Treatment with Ozone . . 166
Initial Operating Experiences of Uprating Diss Sewage Treatment Works Using the BOC Vitox System 633
Microstrainer Theory and the Filtrability Index of Sewage Effluents 120
Oxygen Injection into a Rising Main: Its Effect on Pumping 399
Performance of Rotating Biological Contactors Under Field Conditions 10
Pilot-Scale Advanced Waste-Water Treatment at Davyhulme 127
Recent Experiences in Screening 675
The Operating Experiences at Cirencester Carrousel Plant 573
The Quantification of the Emissions and Dispersion of Odours from Sewage-Treatment Works 266
The Use of Oxygen in Sewage-Treatment Works 151

SEWAGE WORKS DESIGN:
Design and Operational Aspects of Screening Installations at Sea Outfalls on the Northumbrian Coast 37
Effective use of STOM 655
Esholt – Past, Present and Future 28

SEWERAGE SYSTEMS:
Hydrogen Sulphide Corrosion of the Baghdad Trunk Sewerage System 80
Oxygen Injection into a Rising Main: Its Effect on Pumping 399
Sewerage: Priorities for Action 280
The Operation, Maintenance and Renovation of Sewerage Systems and Pumping Stations in a Large Municipality . . 645

SLUDGE TREATMENT AND DISPOSAL:
Agricultural Disposal of Sludges on a Historic Sludge Disposal Site 619

Page

An Attempt to Predict Digestion Failure Using Individual Volatile Acid Concentration as an Indicator 675
Centrifuge Operation at Cambridge Sewage Treatment Works 675
Heavy Metals in Sludge – Are Their Toxic Effects Additive? 112
Low-Cost Provision of Anaerobic Digestion. II. High-Rate and Prefabricated Systems 479
Sewage Sludge Injection into Agricultural Land – A Review of Types Available and Practical Experiences 675
Sewage Sludge Pumping – Recent Research and Application 220
The Application of Developments in Anaerobic Digestion within Severn-Trent Water Authority 200
Uprating Sludge Treatment Processes . . 425

SOLID WASTES:
Generation and Treatment of Leachate from Domestic Wastes in Landfills 465

SOUTH EASTERN BRANCH:
Annual Report, 1981–82 679

SOUTH WESTERN BRANCH:
Annual Report, 1981–82 679

SOUTHERN AFRICAN BRANCH:
Annual Report, 1981 679

UNPUBLISHED PAPERS 675

WATER QUALITY MANAGEMENT:
Biological Surveillance of Rivers 329
Chemical Surveillance of Rivers 343
Ground-Water Pollution Investigations in the Great Ouse Basin. II. Solid Waste Disposal 308
Laboratory Services in Regional Water Authorities 177
River Basin Management in an Industrial Area 511
The Control of Effluent and Water Quality in an Important Water Supply Catchment 97
The Mathematical Modelling of Water Quality with Particular Reference to the Industrial Rivers of Yorkshire 45
The Use of Water Quality Objectives in Seine-Normandie 255

WELSH BRANCH:
Annual Report, 1981–82 679

WEST MIDLANDS BRANCH:
Annual Report, 1981–82 680

AUTHORS

	Page
Aldred, M. I.	80
Anderson, J. A.	120
Andrews, D. A.	675
Ballinger, D.	665
Barber, C.	465
Barnes, L. M.	412
Beckett, P. H. T.	112
Beeching, A.	675
Bellinger, E. G.	372
Blachford, A. J.	601
Booth, M. G.	151
Brade, C. E.	200, 479
Brindley, P.	59
Britten, A. A.	675
Bruce, A. M.	220, 425
Calcroft, M.	619
Carlton-Smith, C. H.	10
Carmichael, W. F.	573, 587
Carne, R.	399
Carter, D. C.	59
Chambers, R. H.	655
Cheung, P. S.	553
Clough, G. F.	399
Collett, R. F.	675
Cooper, P. F.	447
Crook, B. V.	633
Cudby, D. B.	633
Davies, A. W.	177
Davis, R. D.	112
Dick, T. A.	185
Eagles, B. G.	80
Eden, G. E.	5
Eno, J. M.	37
Evans, R. H.	10
Fenlon, J. S.	343
Fiddes, D.	280
Frost, R. C.	220
Green, M. J.	675
Griffiths, J. A.	601
Harker, R. J.	308
Harrington, D. W.	10
Harrington, P. W.	675
Hawkes, H. A.	329
Holmes, P. R.	45
Holt, C.	619
Hopwood, A. P.	412
Jamison, A.	665
Jarman, G. T.	675
Jeffries, C.	633
Johnstone, D. W. M.	573, 587
Jones, A. D.	372
Keddie, A. W. C.	266
Kemsley, S.	665
Kimber, A. R.	391
King, N. J.	245
Klentz, D.	675
Legeron, J. P.	166
Lesouëf, A.	255
Linsmith, M. J.	59
Lloyd, A.	665
Lockyear, C. F.	425
Lowe, P.	525
Mack, G.	553
Maris, P. J.	465
Michaelson, A. P.	220
Morrish, A.	665
Mosey, F. E.	540
Mulready, C. R.	297
Newcombe, S.	399
Noone, G. P.	200, 479
Okrutny, M. S.	558
O'Neill, J.	28
Pace, D. W.	358
Parry, T. A.	127
Payne, D. C.	297
Pike, E. B.	10
Powell, E.	200
Preedy, J. J.	675
Price, G. J.	358
Robertson, C.	665
Robinson, H. D.	465
Robinson, M.	391
Rouse, M. J.	280
Rundle, H.	200, 619
Selby, K.	97
Selleck, J. W.	645
Smeets, J.	241
Spearing, B. W.	655
Stone, D.	665
Tench, H. B.	511
Tester, D. J.	308
Thomson, D. G.	193
Thompson, J. L.	220
Tinker, J.	372
Toms, R. G.	151
Tramontini, E. M.	601
Tricker, T. D. A.	97

	Page
Tyson, J. M.	675
Varley, R. A.	391
Wallbank, T. E.	127
Watkins, D. W.	297
Wheeldon, D. H. V.	447
Whyley, J.	200
Wilson, D. M.	675
Wu, Y. C.	558
Young, D. D.	343